

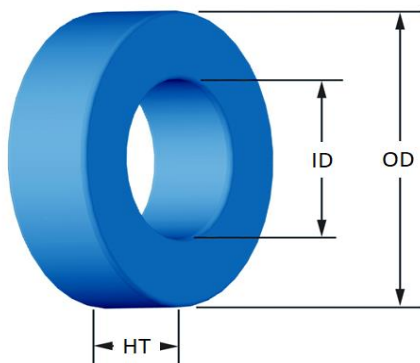


Part Number:

MS-650014-2

Revision:

2023-Dec-06



(If coated, Max./Min. includes coating)

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OD	(nom. - bare core)	165.10	6.500			
	(max.)	166.37	6.550			
ID	(nom. - bare core)	102.40	4.031			
	(min.)	101.13	3.981			
HT	(nom. - bare core)	31.75	1.250			
	(max.)	33.02	1.300			
Mass	(approximate)	2,030	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	9.87	cm ²			
	L _e - Eff. Mag. Path Length	41.2	cm			
	V _e - Eff. Core Volume	415	cm ³			
	WA - Min. Eff. Window Area	80.3	cm ²			
	sa - Surface Area	838	cm ²			
	mlt - mean length per turn	18.2	cm			
Inductance	μ _i (reference)	14				
	A _L value (nominal)	42	nH/N ²			
	Test Winding	100 Turns	AWG# 22			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	4.4	V			
	AL tolerance	±8%				
Core Loss	$\text{Core Loss(mW/cm}^3\text{)}=\frac{a}{B_{pk}^3}+\frac{b}{B_{pk}^{2.3}}+\frac{c}{B_{pk}^{1.65}}+d\cdot B_{pk}^2\cdot f^2$					
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=2.035E+08$, $c=3.969E+06$, $d=3.473E-14$					
	B _{pk}	300	G			
	frequency	100 k	Hz			
	Core Loss (nominal)	168	mW/cm ³			
	Core Loss (maximum)	193	mW/cm ³			
DC Saturation	$\% \mu_i \frac{1}{a+b\cdot H^c}+d$					
	where H expressed in oersteds, and: $a=1.000E-02$, $b=1.065E-06$, $c=1.553$, $d=0.000$					
	H _{dc}	200	Oe			
	Percent Initial Perm.(nom.)	71.5	%			
	Percent Initial Perm.(min.)	65.4	%			
	Coating/Pkg	Coating Type:	Blue Epoxy			
Voltage Breakdown (min.)		1000 Vrms				
Limit		0.1 mA, 5 s				
Package Quantity		3 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	83	104	130	
		Rdc(Ω)	31.0 m	61.8 m	122.9 m	2
	Full Winding	Turns	420	651	1,007	
		Rdc(Ω)	157.0 m	387.1 m	952.3 m	

